US Claims

1. A portable phone, such as mobile phone, a cordless phone or a personal communicator, comprising at least one touch screen display and at least one power supply, said touch screen display comprising at least one inner and one outer essentially transparent, conducting plate, which are movable in relation to each other between a first position, in which the plates are spaced apart, and a second position, in which the plates are contacted to each other by the outer plate being depressed by a user of the portable phone by means of an input means, such as a keypad, or direct activation providing a pressure against the touch screen display, wherein a voltage controlled switch connected to said plates is adapted to turn on the power of the portable phone upon receipt of a signal indicating that a power-on key or a power-on area has been depressed by the user, wherein a control block connected to the voltage controlled switch is arranged to perform an initial detection and evaluation whether it is a valid pressed position on the touch-screen display before powering-on the phone.

2. A portable telephone according to claim 1, wherein the control block is arranged to detect whether the touch position lies within an area defined by four co-ordinates or less defining the maximal area of an on-button of the input-means, or whether it lies within any of the areas of two or more on-buttons or within a combined area of ajoining on-buttons.

3. A portable telephone according to claim 1, wherein the control block is arranged to detect whether two sequential touch positions lie within two areas, each defined by four co-ordinates or less defining the maximal area of a corresponding on-button of the input-means.

4. A portable telephone according to anyone of the preceding claims, wherein the voltage controlled switch comprises control means provided with always-on low frequency (LF) generator means adapted to perform said detection and evaluation.

5. A portable phone according to anyone of the preceding claims, which is a mobile phone.

6. A method for controlling connection of the power supply means in a portable phone provided with a touch screen display, for powering-on the phone, comprising the steps of:

-providing user-operable input means, which can order a voltage controlled switch connected to said touch screen display to turn on the power of the portable phone;

-sensing whether a power-on key of said input means provided on the touch screen display has been depressed by a user of the portable phone;

-enabling a voltage controlled switch by a signal originating from said power-on key provided on the touch screen display in order to turn on the power of the portable phone, as well as the step of performing an initial detection and evaluation whether it is a valid pressed position on the touch-screen display before powering-on the phone, by means of a control block connected to the voltage controlled switch.

7. A method according to claim 6, comprising the step of detecting whether the touch position lies within an area defined by four co-ordinates or less defining the maximal area of an on-key of the input-means, or whether it lies within any of the areas of two or more on-keys or within a combined area of ajoining on-keys.

8. A method according to claim 6, comprising the step of detecting whether two sequential touch positions lie within two areas, each defined by four co-ordinates or less defining the maximal area of a corresponding on-key of the input-means.